F-219 (Rev 15AUG19)

samtec

10 YEAR MFG
WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

TSM–116–02–S–DV–LC

TSM–121–01–T–SV

(2.54 mm) .100"

SMT .025" SQ POST HEADER

Board Mates:
SSW, SSQ, SSM, BSW, ESW, ESQ, BCS, SLW, CES, HLE

Cable Mates:
IDSS, IDSD

| TSM | - | 1 | NO. PINS PER ROW | - | LEAD STYLE | - | PLATING OPTION | - | ROW OPTION | - |

02 thru 36

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?TSM

Insulator Material:
Black Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over 50 µ" (1.27 µm) Ni
Operating Temp Range:
-55 °C to +105 °C with Tin;
-55 °C to +125 °C with Gold
Voltage Rating:
475 VAC -SV/-DV mated with BCS or SSM
RoHS Compliant: Yes

MATES	CURRENT RATING (PER PIN)
TSM/SSW	4.7 A
TSM/SSM	5.4 A
TSM/HLE	4.1 A
2 PINS POWERED	

PROCESSING

Lead–Free Solderable: Yes
-DH/-SH Lead Coplanarity:
(0.15 mm) .006" max (02-36)*
-DV/-SV Lead Coplanarity:
(0.10 mm) .004" max (02-05)
(0.13 mm) .005" max (06-10)*
(0.15 mm) .006" max (11-36)*
*(.004" stencil solution may be available; contact IPG@samtec.com)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality
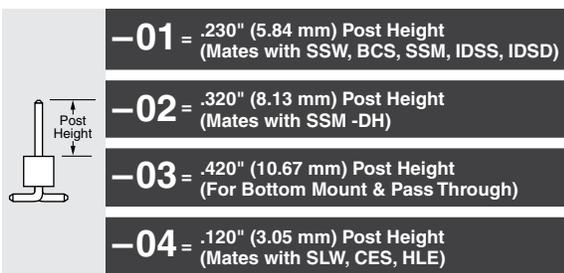
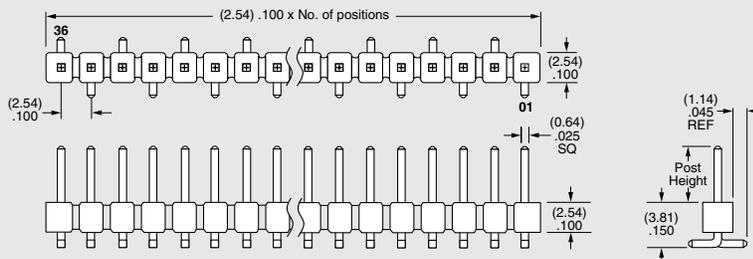**UL** FILE NO. E111594

ALSO AVAILABLE
(MOQ Required)

• Edge Mount and Locking Clips for –SV
• Solder Locks for –DH and Shrouds for –DV
• Other platings

Note:
Some lengths, styles and options are non-standard, non-returnable.

–01 = .230" (5.84 mm) Post Height
(Mates with SSW, BCS, SSM, IDSS, IDSD)

–02 = .320" (8.13 mm) Post Height
(Mates with SSM -DH)

–03 = .420" (10.67 mm) Post Height
(For Bottom Mount & Pass Through)

–04 = .120" (3.05 mm) Post Height
(Mates with SLW, CES, HLE)

Post Height

–F
= Gold flash on post, Matte Tin on tail

–L
= 10 µ" (0.25 µm) Gold on post, Matte Tin on tail

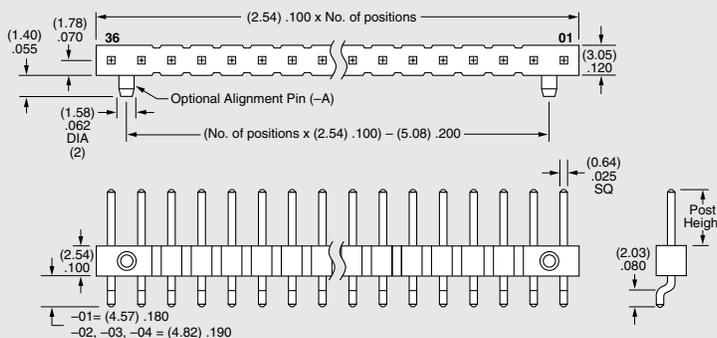**–S**
= 30 µ" (0.76 µm) Gold on post, Matte Tin on tail

–T
= Matte Tin

–SV
= Single Row Vertical Pin

(2.54) .100 x No. of positions

36

(2.54) .100

01

(2.54) .100

(2.54) .100

(0.64) .025 SQ

(2.54) .100

(1.14) .045 REF

Post Height

(3.81) .150

APPLICATIONS

SSM   TSM

HORIZONTAL

–SH
= Single Row Horizontal Pin

(2.54) .100 x No. of positions

(1.40) .055
(1.78) .070

36

01

(3.05) .120

(1.58) .062 DIA (2)

Optional Alignment Pin (–A)

(No. of positions x (2.54) .100) – (5.08) .200

(0.64) .025 SQ
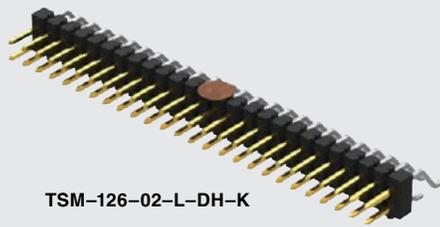
(2.54) .100

Post Height

(2.03) .080

–01= (4.57) .180
–02, –03, –04 = (4.82) .190

Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

TSM–126–02–L–DH–K

TSM–115–01–T–SH–A

TSM–110–01–T–DV

OTHER OPTIONS

–A
= Alignment Pin metal or plastic at Samtec discretion (Not available with –TM or –MT) (02 positions min.) (Not available with –LC)

–LC
= Locking Clip (Not available with –TM) (3 positions min.) (Not available with –A) (Manual placement required)

–K
= (6.50 mm) .256" DIA Polyimide Film Pick & Place Pad
(–SH: 4 positions minimum without –TR; 2 & 3 positions available with –TR)
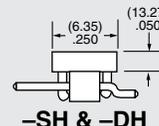(–DH: 4 positions minimum without –TR)

–"XXX"
= Polarized Position

–P
= Plastic Pick & Place Pad
(–DV: 4 positions minimum without –TR; 2 & 3 positions available with –TR)
(–SH: 4 positions minimum without –TR; 2 & 3 positions available with –TR)
(–DH: 5 positions minimum without –TR)
(–SV: 4 positions minimum without –TR; 2 & 3 positions available with –TR)

(4.06) .160
(6.86) .270
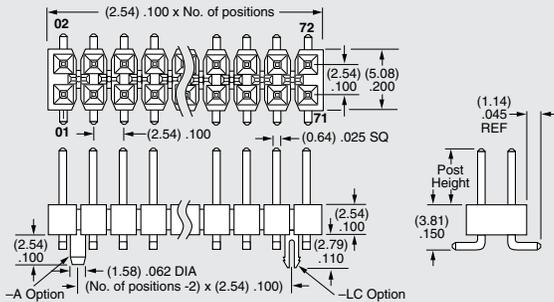
–SV

(6.35) .250
(13.27) .050
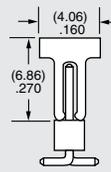
–SH & –DH

–TR
= Tape & Reel Packaging
–SV: 02-22 positions, –DV:02-28 positions, –SH: 02-30 positions, –DH: 02-29 positions
(Not available with –MT or –TM)

–FR
= Full Reel Tape & Reel Packaging
(Must order maximum quantities per reel. Contact Samtec for parts per reel)
–SV: 02-22 positions, –DV:02-28 positions, –SH: 02-30 positions, –DH: 02-29 positions
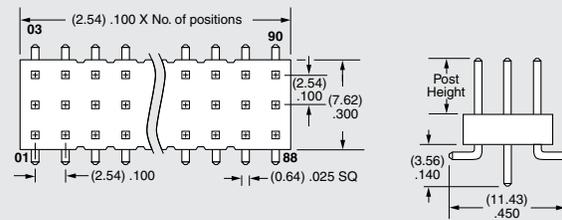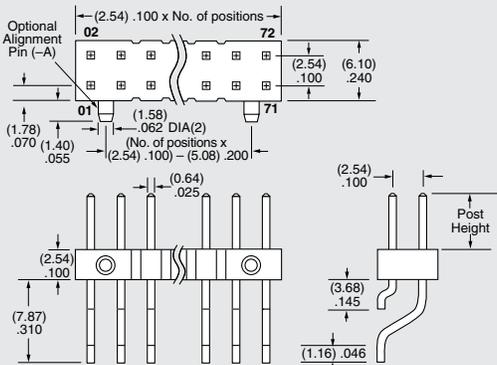(Not available with –MT or –TM)

–DV
= Double Row Vertical Pin

(2.54) .100 x No. of positions
02   72
(2.54) (5.08) .100 .200
01   71
(2.54) .100
(0.64) .025 SQ
(1.14) .045 REF
(2.54) .100
Post Height
(2.54) .100
(2.79) .110
(3.81) .150
(1.58) .062 DIA
(No. of positions -2) x (2.54) .100
–A Option
–LC Option

–TM
= Triple Row Vertical Mixed Technology (Style –01 only)

02 thru 30 positions only

(2.54) .100 X No. of positions
03   90
(2.54) .100 (7.62) .300
01   88
(2.54) .100
(0.64) .025 SQ
Post Height
(3.56) .140
(11.43) .450

–DH
= Double Row Horizontal Pin (Style –01, –02 or –03 only)

Optional Alignment Pin (–A)
(2.54) .100 x No. of positions
02   72
(2.54) (6.10) .100 .240
01   71
(1.78) .070
(1.40) .055
(1.58) .062 DIA(2)
(No. of positions x (2.54) .100) – (5.08) .200
(0.64) .025
(2.54) .100
(2.54) .100
Post Height
(7.87) .310
(3.68) .145
(1.16) .046

–MT
= Mixed Technology Pin (Style –01, –02 or –03 only)
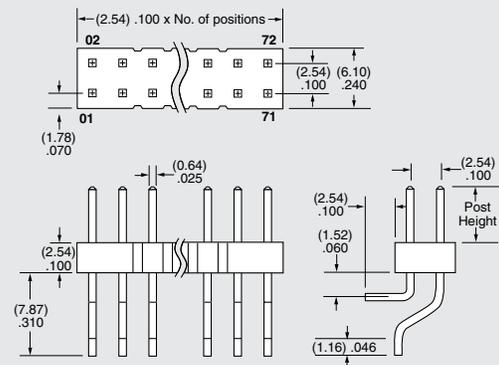
(2.54) .100 x No. of positions
02   72
(2.54) (6.10) .100 .240
01   71
(1.78) .070
(0.64) .025
(2.54) .100
(2.54) .100
(2.54) .100
Post Height
(1.52) .060
(7.87) .310
(1.16) .046

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All parts within this catalog are built to Samtec's specifications.
irements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.